

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	"5892829"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/06 16:32
L2	645	380/42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/06 16:32
L3	7	2 and ((block near(cipher or encrypt\$3)) with (matrix or matrices))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/06 16:42
L4	37	2 and ((hash\$3 or digest) with block)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/06 16:42
S1	168	secure hash function	USPAT	NEAR	ON	2007/01/29 10:02
S2	14	S1 and matr\$4	USPAT	NEAR	ON	2007/01/29 08:31
S3	41	"6275599"	USPAT	NEAR	ON	2007/01/29 08:33
S4	141	"5673316"	USPAT	NEAR	ON	2007/01/29 08:34
S5	9	"5651069"	USPAT	NEAR	ON	2007/01/29 08:47
S6	155	"3962539"	USPAT	NEAR	ON	2007/01/29 08:49
S7	424	"4200770"	USPAT	NEAR	ON	2007/01/29 08:53
S8	314	"4218582"	USPAT	NEAR	ON	2007/01/29 08:54
S9	110	"4309569"	USPAT	NEAR	ON	2007/01/29 08:54
S10	9	"4309569" not (S8 or S7 or S6 or S5 or S4 or S3 or "20")	USPAT	NEAR	ON	2007/01/29 08:56
S11	752	"4405829" NOT S10	USPAT	NEAR	ON	2007/01/29 08:57
S12	0	"4405829.PN." NOT S10	USPAT	NEAR	ON	2007/01/29 08:57
S13	1	"4405829".PN.	USPAT	NEAR	ON	2007/01/29 08:58
S14	71	"4625076" NOT S10	USPAT	NEAR	ON	2007/01/29 09:02

## EAST Search History

S15	223	"4748668" NOT S14	USPAT	NEAR	ON	2007/01/29 09:03
S16	79	"4748668" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14)	USPAT	NEAR	ON	2007/01/29 09:04
S17	33	"4850017" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16)	USPAT	NEAR	ON	2007/01/29 09:07
S18	0	"4850017" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17)	USPAT	NEAR	ON	2007/01/29 09:08
S19	41	"4908861" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17)	USPAT	NEAR	ON	2007/01/29 09:09
S20	4	"4995982" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19)	USPAT	NEAR	ON	2007/01/29 09:10
S21	42	"5140634" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20)	USPAT	NEAR	ON	2007/01/29 09:13
S22	11	"5214703" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21)	USPAT	NEAR	ON	2007/01/29 09:14
S23	43	"5231668" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22)	USPAT	NEAR	ON	2007/01/29 09:19
S24	46	"5276737" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23)	USPAT	NEAR	ON	2007/01/29 09:22
S25	97	"3798359" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24)	USPAT	NEAR	ON	2007/01/29 09:24
S26	30	"4386233" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25)	USPAT	NEAR	ON	2007/01/29 09:26
S27	23	"4424414" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26)	USPAT	NEAR	ON	2007/01/29 09:27
S28	22	"4567600" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27)	USPAT	NEAR	ON	2007/01/29 09:28

## EAST Search History

S29	14	"4633036" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28)	USPAT	NEAR	ON	2007/01/29 09:29
S30	20	"4881264" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28)	USPAT	NEAR	ON	2007/01/29 09:30
S31	5	"956863" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28 or S29 or S30)	USPAT	NEAR	ON	2007/01/29 09:31
S32	48	"4956863" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28 or S29 or S30)	USPAT	NEAR	ON	2007/01/29 09:32
S33	38	"5003597" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28 or S29 or S30 or S32)	USPAT	NEAR	ON	2007/01/29 09:36
S34	47	"5016274" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28 or S29 or S30 or S32 or S33)	USPAT	NEAR	ON	2007/01/29 09:37
S35	47	"5016274" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28 or S29 or S30 or S32 or S33)	USPAT	NEAR	ON	2007/01/29 09:38
S36	11	"5299262" NOT (S8 or S7 or S6 or S5 or S4 or S3 or S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 or S23 or S24 or S25 or S26 or S27 or S28 or S29 or S30 or S32 or S33)	USPAT	NEAR	ON	2007/01/29 09:38
S37	168	secure hash function	USPAT	NEAR	ON	2007/01/29 09:39
S38	442	stream ciphers	USPAT	NEAR	ON	2007/01/29 09:39
S39	0	graph cryptographic primitive	USPAT	NEAR	ON	2007/01/29 09:40
S40	67749	(collision or resistant hash function or stream cipher)	USPAT	NEAR	ON	2007/01/29 09:42
S41	117	collision (resistant or free) hash function	USPAT	NEAR	ON	2007/01/29 09:43
S42	69	S41 and (block or tream) cipher	USPAT	NEAR	ON	2007/01/29 09:55

## EAST Search History

S43	0	matrix based hash function	USPAT	NEAR	ON	2007/01/29 10:02
S44	1	matrix hash function	USPAT	NEAR	ON	2007/01/29 10:07
S45	10131	hash function	USPAT	AND	ON	2007/01/29 10:15
S46	190	S45 stream adj cipher	USPAT	AND	ON	2007/01/29 10:16
S47	150	S46 table	USPAT	AND	ON	2007/01/29 10:16
S48	69	S47 matrix	USPAT	AND	ON	2007/01/29 11:13
S49	10131	hash function	USPAT	AND	ON	2007/01/29 11:16
S50	443806	secure	USPAT	AND	ON	2007/01/29 11:16
S51	3827	S49 secure	USPAT	AND	ON	2007/01/29 11:16
S52	1226	S51 and fast	USPAT	AND	ON	2007/01/29 11:16
S53	91006	"53" index	USPAT	AND	ON	2007/01/29 11:17
S54	131921	"52" index	USPAT	AND	ON	2007/01/29 11:17
S55	646	S52 index	USPAT	AND	ON	2007/01/29 11:17
S56	21284	S53 matr\$3	USPAT	AND	ON	2007/01/29 11:18
S57	194	S55 matr\$3	USPAT	AND	ON	2007/01/29 11:19
S58	0	S57 grap table	USPAT	AND	ON	2007/01/29 11:18
S59	0	S57 grap	USPAT	AND	ON	2007/01/29 11:18
S60	135	S57 not S48	USPAT	AND	ON	2007/01/29 11:20
S61	609	cryptographic primitive	USPAT	AND	ON	2007/01/29 11:21
S62	92	S61 collision near (resistant or free)	USPAT	AND	ON	2007/01/29 11:39
S63	0	colision (free or resistant ) hash function	USPAT	ADJ	ON	2007/01/29 11:39
S64	0	colision (free or resistant ) hash function	USPAT	NEAR	ON	2007/01/29 11:39
S65	0	colision (free or resistant ) hash function	USPAT	AND	ON	2007/01/29 11:40
S66	117	collision (free or resistant ) hash function	USPAT	NEAR	ON	2007/01/29 13:15
S67	2	advance encryption standard and hash function	USPAT	NEAR	ON	2007/01/29 13:16
S68	5	("20020039418"   "20030031316"   "5928315"   "5982900"   "6064740").PN. OR ("7027597"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:21
S69	1	matrix graph and block function	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:28
S70	1	"20050175176"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:30

## EAST Search History

S71	6221	block function	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:30
S72	0	S71 advanced encryption standard	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:31
S73	20	S71 and advanced encryption standard	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:40
S74	1690	encryption algorithm and (matr\$3 or graph)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:43
S75	439	S74 and hash function	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:46
S76	427	S75 and (block or stream )	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:01
S77	1	S76 and monoid	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 13:47
S78	3	"6862354"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:02
S79	7	"5892829"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:12
S80	35	"4944009"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:15
S81	95357	matri\$3 and graph	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:15
S82	1772184	table	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:15
S83	58689	S81 and table	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:15
S84	12	S83 and cryptograph\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/29 16:20
S85	204	S81 and generator matrix	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 12:59

## EAST Search History

S86	1	graph generated matrix	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:04
S87	0	matrix generated graph	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:05
S88	0	"380.clas" and @pd<= "2002"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:06
S89	0	"380.class" and @pd<= "2002"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:07
S90	0	"380.class." and @pd<= "2002"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:08
S91	0	"380".clas. and @pd<= "2002"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:09
S92	14461	"380".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:09
S93	8835	S92 and @pd <"20021201"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:10
S94	44	S93 and secure hash function	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:20
S95	32	S93 and matrix and AES	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:11
S96	3	S93 and (graph and matrix and AES)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:34
S97	14461	"380".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:35
S98	1676	S97 and (hash near function)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:36
S99	102	S98 and ( stream cipher and block cipher)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 13:59
S100	16	S98 and ( graph and matrix)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:11

## EAST Search History

S10 1	2	S98 and (girth)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:12
S10 2	2	S97 and girth	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:13
S10 3	6904	girth	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:13
S10 4	0	S103 claw	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:13
S10 5	42	S103 and claw	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:14
S10 6	46851	"380".clas. or "713".clas. or "726". clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:14
S10 7	2	S106 and girth	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:15
S10 8	450	S106 and((stream and block) near cipher)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:16
S10 9	176	S108 and (hash near function)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 14:17
S11 0	74	S109 not S99	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 16:00
S11 1	36	"6289455"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 16:20
S11 2	325	secure hash function	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 16:21
S11 3	265	S112 and (@pd<"20040101" or @ad<"20040101" or @prad<"20040101" or @rlad<"20040101")	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 16:22
S11 4	30	S113 and matrix	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 16:24
S11 5	11	S113 and (block cipher and stream cipher)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/30 16:29

## EAST Search History

S11 6	22	S113 and aes	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/31 09:34
S11 7	9	secure stream cipher	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/01/31 09:35
S11 8	1	expander graph same hash	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:53
S11 9	11	(block cipher) with (matrix or matrice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:55
S12 0	5412	(hash\$3 or digest) with block	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:57
S12 1	0	S118 same S119	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:56
S12 2	0	S118 and S119	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:57
S12 3	0	((hash\$3 or digest) with block)same (block cipher ) with (matrix or matrices)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:58



## EAST Search History

S12 4	242	((hash\$3 or digest) with block) same (block cipher ) with (cipher\$4 or encrypt\$3 or encipher\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:59
S12 5	2485	380/28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:59
S12 6	790	380/37	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 15:59
S12 7	35	S124 and S125	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:20
S12 8	506	713/179	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:21
S12 9	1	S128 and (S118 or S119 or S124)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:38
S13 0	260	((expander or ramanujan or lubotzky) near graph or graph )with (hash\$3 or digetst)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:41

## EAST Search History

S13 1	78	S130 and (matrix or matrice)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:53
S13 2	225	(hash\$3 or digest) same bas\$3 same graph	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 17:02
S13 3	1	(hash\$3 or digest) same bas\$3 same graph near expander	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:55
S13 4	0	S132 same (block cipher)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:55
S13 5	0	S132 and S128	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:56
S13 6	21	S132 and S120	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 16:56
S13 7	156	(hash\$3 or digest) same based same graph	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/31 17:04

## EAST Search History

S13 8	24	S137 and (encrypt\$3 or encipher\$3 or cipher\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/01 08:15
S13 9	3	expander graph with vertex	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/01 08:19
S14 0	2485	380/28	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/01 08:20
S14 1	2	S140 and expander graph	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/08/01 08:20